

Frontend Documentation (React)

Responsibility:

The frontend is responsible for:

- User authentication
 - Session handling
 - Role-based UI rendering
 - Form validation
 - Communication with the backend
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Frontend Architecture:

pages → api → context → types

Structure

- pages/ → Screens (Login, Dashboard, CreateLeave)
 - api/ → Axios and HTTP calls
 - context/ → Authentication Context
 - types/ → Shared TypeScript models
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Frontend Authentication:

Login Flow

1. User enters email
2. Frontend calls /auth/login
3. User data is stored in AuthContext
4. Axios automatically attaches X-User-Id header

```
api.defaults.headers.common["X-User-Id"] = user.id;
```

Role Management (Frontend)

Role	Behavior
Employee	Create requests, view own requests
Manager	View all requests, approve/reject

The UI adapts dynamically:

- Action buttons visible only to Managers
- Creation forms visible only to Employees

Note: The backend always validates permissions (defense in depth).

UI / Styling

- Tailwind CSS
 - Responsive design
 - Visual feedback for errors and states
 - Simple and reusable components
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Frontend Testing

Tools

- Vitest
- React Testing Library

Included Tests

- Successful login
- Form validation
- Role-based UI behavior (Manager vs Employee)

Seed users (preloaded):

Role	Email	ID
Employee	juan01@gmail.com	1
Manager	rodri02@gmail.com	2
Employee	beydi03@gmail.com	3